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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Kenneth R. Williams

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11/09/2006

HEWLETT-PACKARD COMPANY

Intellectual Property Administration

P.O. Box 272400

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EXAMINER

TRAN, LY T

ART UNIT

PAPER NUMBER

2853

DATE MAILED: 11/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/015,911

Applicant(s)

WILLIAMS ET AL.

Examiner

Ly T. TRAN

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 30 August 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-8, 10, 12-16, 22, 23, 26, 28-34, 36-38, 40, 41, 44, 45, 47 and 50-61 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8, 10, 12-16, 22, 23, 26, 28-34, 36-38, 40, 41, 44, 45, 47 and 50-61 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-4 and 26, 28 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Simon (USPN 5,428,375).

With respect to claims 1 and 26, 28 and 29, Simon discloses:

- A first set of print bar assemblies (fig.2: element 12a, 12b) configures to transfer a first percentage of an imaging medium onto a first side of print media (S)
- A second set of print bar assemblies (fig.2: element 12c, 12d) configured to transfer a second percentage of the imaging medium onto the first side of the media (S)
- The print media (element 14) being advanced such as the second percentage of the imaging medium is transferred onto the first side of print media after the first percentage of the image medium is transferred onto the first side of print media wherein the percentages of the imaging medium transferred onto the print media with one or more print bar assemblies of the print units correspond to the number of print units.(fig.2)

With respect to claim 2, Simon discloses the first set of print bar assemblies transfers a first half of the imaging medium to form a first portion of a printed image on the print media and wherein the second set of the print bar assemblies transfers a second half of the image medium to form a second portion of the printed image (fig.2)

With respect to claim 3, Simon discloses wherein the first set of print bar assemblies transfers a first half of the imaging medium to form a first portion of a printed image on the print media, and wherein the second set of print bar assemblies transfers a second half of the imaging medium to form a second portion of the printed image (fig.2).

With respect to claim 3, Simon at least one other set of printbar assemblies configured to transfer a percentage of the imaging medium onto the print media (fig.2).

With respect to claim 4, Simon discloses at least one other set of printbar assemblies, an individual set of printbar assemblies configured to transfer a percentage of the imaging medium corresponding to the number of printbar assembly sets (fig.2).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 2-8, 10, 12-16, 22, 23, 30-34, 36-38, 40, 41, 44, 45, 47, 50-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simon (USPN 4,428,375) in view of Rezanka (USPN 5,570,118).

With respect to claims 2-8, 10, 12-16, 22, 23, 30-34, 36-38, 40, 41, 44, 45, 47, 50-61, Simon disclose:

- first set of print bar assemblies (fig.2: element 12a, 12b) configures to transfer a first percentage of an imaging medium onto a first side of print media (S)
- A second set of print bar assemblies (fig.2: element 12c, 12d) configured to transfer a second percentage of the imaging medium onto the first side of the media (S)
- The print media (element 14) being advanced such as the second percentage of the imaging medium is transferred onto the first side of print media after the first percentage of the image medium is transferred onto the first side of print media wherein the percentages of the imaging medium transferred onto the print media with one or more print bar assemblies of the print units correspond to the number of print units (fig.2)
- the first set of printbar assemblies are configured to collectively span a width of the imaging medium (fig.2).
- at least one of the first printbar assemblies includes multiple print heads that partially overlap one another (fig.2).

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- Since Simon discloses that different colors of ink can be supplied to the plurality of ink jet print head, it 's obvious to one having ordinary skill in the art to include cyan, magenta and yellow color in the first and second head of print bar assembly in order to produce black, cyan, yellow and magenta color image
- Wherein the first set of printbar assemblies includes a first printbar and a second printbar, the second printbar located downstream from the first printbar in a media feed direction (fig.2)
- at least one of the first set of printbar assemblies and the second set of printbar assemblies is configured to transfer fixer to the medium. (fig.2)

However, Simon fails to teach a heater system configured to remove moisture from the imaging medium after being transferred onto the print media (element 212, 214)

Rezanka discloses:

- a first heater (fig.1: element 212) configured to dry the first percentage of the imaging medium and a second heater (fig.1: element 214) configured to dry the second percentage of the imaging medium and the first percentage of the imaging medium dried with the first heater before the second percentage of the imaging medium is transferred onto the print media and the first and second heater positioned under the print media (Fig.1),

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- the first heater (element 212) configured to remove moisture from the first percentage of the image medium before the one or more print bar assemblies of the second print unit transfer the imaging medium onto the print media (fig.1), a second heater (element 214) configured to remove moisture from the second percentage of the image medium,
- the first heater system and the second heater system each includes a component positioned to envelop a portion of the print media and remove moisture from the media (fig.1: element 212, 214)
- Removing moisture from the print media with multiple heater system (Fig.1: element 212, 214) and an individual heater system corresponding to an individual print unit to remove the moisture deposited along with the ink by individual print unit
- removing includes removing the moisture with the individual heater system (Fig.1: element 212, 214) positioned under a print media routing path positioned to envelop a portion of a print media routing path.
- drying the imaging medium with multiple heaters (fig.1: element 212, 214), an individual heater corresponding to an individual print unit to dry percentage of the image medium transferred onto the print media by one or one print bar assemblies (K, C, M, Y) of individual print unit.
- drying the imaging medium with multiple heaters (Fig.1: element 212, 214), an individual heater corresponding to an individual printing unit one print bar assemblies of at least one other print unit (Element C, M Y)

- a heater configured to remove moisture from the imaging medium as the medium passes between the print units, wherein at least one of the print units is configured to transfer fixer to the medium (Fig.1: element 212, 214).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the heater as taught by Razanka. The motivation of doing so is to dry the ink and prevent color bleeding.

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 1, 25, 40 and 47 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T. TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.



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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LT

November 3, 2006

  
**STEPHEN MEIER**  
**SUPERVISORY PATENT EXAMINER**